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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,264	01/02/2004	Louise E. Moser	ETE5342.11A2	7448
8156 JOHN P. O'BA	7590 09/24/2007 NION	EXAMINER		
O'BANION & RITCHEY LLP			BAROT, BHARAT	
400 CAPITOL MALL SUITE 1550 SACRAMENTO, CA 95814			ART UNIT	PAPER NUMBER
	,		2155	-
			MAIL DATE	DELIVERY MODE
			09/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/751,264	MOSER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Bharat N. Barot	2155				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe Failure to reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the nearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may n. eriod will apply and will expire SIX (6) Mi tatute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) \boxtimes Responsive to communication(s) filed on $\underline{0}$	02 January 2004.					
•	This action is non-final.					
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-43</u> is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ⊠ Claim(s) <u>12-43</u> is/are allowed. 6) ⊠ Claim(s) <u>1-4</u> is/are rejected. 7) ⊠ Claim(s) <u>5-11</u> is/are objected to. 8) □ Claim(s) are subject to restriction as	ndrawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Exar						
, <u></u>						
Applicant may not request that any objection to						
Replacement drawing sheet(s) including the co						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the copies of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the priority document * See the attached detailed Office action for a copies of the priority document * See the attached detailed Office action for a copies of the priority document * See the attached detailed Office action for a copies of the priority document * See the attached detailed Office action for a copies of the copies of the priority document * See the attached detailed Office action for a copies of the copies of the application from the International But * See the attached detailed Office action for a copies of the copies of the copies of the application from the International But * See the attached detailed Office action for a copies of the copies of	ments have been received. ments have been received in priority documents have be ureau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. Claims 1-43 presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Glendening et al (U.S. Patent No. 7,243,132). Glendening's patent meets all the limitations for claims 1-4 recited in the claimed invention.
- 4. As to claim 1, Glendening et al teach a method of maintaining clock consistency in a fault-tolerant distributed system for a group of replicas having physical hardware clocks (see abstract; and figures 1-4), comprising: executing a time service handler for accessing a physical hardware clock; establishing a single consistent group clock value within the time service handler for a group of replicas to be used in place of the physical hardware clock value; and returning from the time service handler with the group clock value (figures 7-13; and columns 11-12).

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- 5. As to claim 2, Glendening et al teach that the replicas in the group receive a single consistent group clock value while at least one of the replicas continues to operate (figures 11-13; and column 12 lines 40-65).
- 6. As to claims 3-4, Glendening et al teach that in response to successive executions of the time service handler by the replicas in the group for accessing the physical hardware clocks, the consistent group clock values returned to the replicas in the group are monotonically increasing; and the increment, skew, and drift of the consistent group clock value from one reading to the next is bounded (figures 14-23; and column 12 line 66 to column 13 line 34).

Allowable Subject Matter

7. Claims 12-43 are allowed over the prior art of record and claims 5-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The examiner has found that the prior art of record does not teach or suggest or render obvious the limitations that the time service handler computes and stores a clock offset value as the difference between the physical hardware clock value and the most recent determination of the consistent group clock value, the clock offset value is updated in response to establishing a consistent group clock value; and sending a clock synchronization message to replicas in the group of replicas, which proposes the local logical clock value as a consistent group clock value, when no other clock synchronization messages for the calling thread have been received, extracting

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the local clock value from a received clock synchronization message as a consistent group clock value; and updating the clock offset value for the given replica to the value of the consistent group clock value less the physical clock value.

Additional References

- The examiner as of general interest cites the following references. 8.
 - Newcombe et al, U.S. Patent No. 6,349,325. a.
 - Bedard et al, U.S. Patent No. 4,683,570. b.

Contact Information

Any inquiry concerning this communication or earlier communications from the 9. examiner should be directed to **Bharat Barot** whose Telephone Number is (571) 272-3979. The examiner can normally be reached on Monday-Friday from 9:30 AM to 6:00 PM. Most facsimile-transmitted patent application related correspondence is required to be sent to the Central FAX Number (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar, can be reached at (571) 272-4006.

Patent Examiner Bharat Barot

Art Unit 2155

September 07, 2007

Bhood Borot.

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